

FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PW FORM PAT-1449)  
Patent and Trademark Office



Atty. M# Client Ref.

0305376 P-0362.010-US

Applicant: VAN BILSEN et al.

Appln. No.: 10/665,404

Filing Date: September 22, 2003

Examiner: S. B. Aller Group Art Unit: 2881-2878

Date: February 10, 2004

Page 1 of 2

### U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
AR	4,037,969	07/1977	FELDMAN et al.			
BR	4,236,805	04/1982	FELDMAN et al.			
CR	4,251,160	02/1981	BOUWHUIS et al.			
DR	4,355,892	10/1982	MAYER et al.			
ER	4,398,824	08/1983	FELDMAN et al.			
FR	4,514,858	04/1985	NOVAK			
GR	4,540,277	09/1985	MAYER et al.			
HR	4,614,432	09/1986	KUNIYOSHI et al.			
IR	4,690,529	09/1987	SUGIYAMA et al.			
JR	4,710,026	12/1987	MAGOME et al.			
KR	4,748,333	05/1988	MIZUTANI et al.			
LR	4,778,275	10/1988	VAN DEN BRINK et al.			
MR	4,814,829	03/1989	KOSUGI et al.			
NR	4,828,392	05/1989	NOMURA et al.			
OR	4,857,744	08/1989	KATAOKA et al.			
PR	4,861,162	08/1989	INA			
QR	4,870,452	09/1989	TANIMOTO et al.			
RR	4,952,970	08/1990	SUZUKI et al.			
SR	5,100,237	03/1992	WITTEKOEK et al.			
TR	5,114,236	05/1992	MATSUGU et al.			
UR	5,118,953	06/1992	OTA et al.			

### FOREIGN PATENT DOCUMENTS

	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
					Enclosed	No
R	VR 11-329914	11/1999	Japan	SAKO TAKASHI	X	X
WR						
XR						
YR						

### OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

ZR	Markle, D. A., "Submicron 1:1 Optical Lithography", Semi-conductor International, pp. 173-142, May 1986.	X
AAR		
BBR		
CCR		

Examiner *Sophie B. Aller*

Date Considered: *2/6/06*

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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Appln. No.:	10/665,404	
Filing Date:	September 22, 2003	
Examiner:	S.B. All	Group Art Unit: 2881 2878

INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

Date: February 10, 2004

Page 2 of 2

U.S. PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR	5,144,363	09/1992	WITTEKOEK et al.			
	BR	5,151,754	09/1992	ISHIBASHI et al.			
	CR	5,160,849	11/1992	OTA et al.			
	DR	5,243,195	09/1993	NISHI			
	ER	5,347,356	09/1994	OTA et al.			
	FR	5,418,613	05/1995	MATSUTANI			
	GR	5,477,057	12/1995	ANGELEY et al.			
	HR	5,488,230	01/1996	MIZUTANI et al.			
	IR	5,489,986	02/1996	MAGOME et al.			
	JR	5,543,921	08/1996	UZAWA et al.			
	KR	5,559,601	09/1996	GALLATIN et al.			
	LR	5,596,204	01/1997	IRIE et al.			
	MR	5,801,390	09/1998	SHIRAISHI			
	NR	5,808,910	09/1998	IRIE et al.			
	OR	5,920,376	07/1999	BRUCKSTEIN et al.			
	PR	5,920,378	07/1999	MURAKAMI et al.			
	QR	6,034,378	03/2000	SHIRAISHI			
	RR	6,133,641	10/2000	HAMADA et al.			
	SR	6,233,494 B1	05/2001	AOYAGI			
	TR	6,242,754 B1	06/2001	SHIRAISHI et al.			
	UR	6,297,876 B1	10/2001	BORNEBROEK			

FOREIGN PATENT DOCUMENTS

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	WR							
	XR							
	YR							

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

ZR				
AAR				
BBR				
CCR				
DDR				

Examiner <i>Sophie Balle</i>	Date Considered: <i>2/6/06</i>
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MAR 31 2004



Atty.  
Dkt. No.

M#

Client Ref.

0305376

P-0362.010-US

Applicant: Frank VAN BILSEN

Appln. No.: 10/665,404

Filing Date: September 22, 2003

Examiner: S. B. All Group Art Unit: 2884 2878

Date: March 31, 2004

Page 1 of 1

### U.S. PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
AS	AR	2003/0002043	01/2003	ABDULHALIM et al.			
	BR	5,910,847	06/1999	VAN DER WERF et al.			
	CR	5,674,650	10/1997	DIRKSEN et al.			
	DR						
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	NR						
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	RR						

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	WR									
	XR									

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YR	
ZR	
AAR	
BBR	
CCR	

Examiner *Sophyne Ball*

Date Considered: *2/6/06*

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	0305376	P-0362.010-US

Applicant:	Frank VAN BILSEN
Appln. No.:	10/665,404
Filing Date:	September 22, 2003
Examiner:	S.B. Alley Group Art Unit: 2881 2878

Date: May 5, 2004

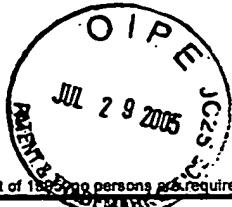
Page  of

U.S. PATENT DOCUMENTS							
Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)		Class	Sub Class	Filing Date (if appropriate)
P	AR 6,420,791 B1	07/2002	HUANG et al.				
	BR 2002/0158193 A1	10/2002	SEZGINER et al.				
CR							
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FOREIGN PATENT DOCUMENTS						English Abstract	Translation Readily Available		Translation Readily Available
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AAR									
BBR									
CCR									

Examiner: <i>Stephonye Ball</i>	Date Considered: <i>2/6/06</i>
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PTO/SB/08a (08-03)

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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

1

## Complete if Known

Application Number	10/665,404
Filing Date	09/22/2003
First Named Inventor	FRANK VAN BILSEN
Art Unit	2881 2878
Examiner Name	S. B. Allen

Attorney Docket Number 081468-0305376

## U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 2002/0021434 A1	Feb. 21, 2002	Nomura et al.	
		US- 6,297,876 B1	Oct. 2, 2001	Bornebroek	
		US- 4,332,473	Jun. 1, 1982	Ono	
		US- 4,200,395	Apr. 29, 1980	Smith et al.	
		US- 6,285,455 B1	Sep. 4, 2001	Shiraishi	
		US- 4,757,207	Jul. 12, 1988	Chappelow et al.	
		US- 6,160,622	Dec. 12, 2000	Dirksen et al.	
		US- 2002/0158193 A1	Oct. 31, 2002	Sezginer et al.	
		US-			

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
R		JP 2001-267211	Sep. 28, 2001	Mizutani		

Examiner Signature

*Stephane Ball*

Date Considered

2/6/06

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

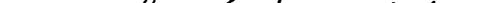
filed 7/29/05

PTO/SB/08b (08-03)

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				<b>Application Number</b>	10/665,404
				<b>Filing Date</b>	09/22/2003
				<b>First Named Inventor</b>	FRANK VAN BILSEN
				<b>Art Unit</b>	2881 2878
				<b>Examiner Name</b>	S. B. Alier
(Use as many sheets as necessary)				<b>Attorney Docket Number</b>	
Sheet	1	of	1	081468-0305376	

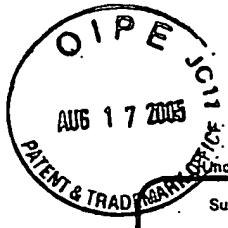
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## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(Use as many sheets as necessary)*

Sheet 1 of 1

<b>Complete if Known</b>	
Application Number	10/665,404
Filing Date	09/22/2003
First Named Inventor	FRANK VAN BILSEN
Art Unit	<u>2881</u> <u>2878</u>
Examiner Name	<u>S. B. All</u>
Attorney Docket Number	081468-0305376

**U. S. PATENT DOCUMENTS**

## FOREIGN PATENT DOCUMENTS

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)			
AS		JP 2001-267211	Sep. 28, 2001	Mizutani	

**Examiner**

Shahze Ball

**Date**

26/06

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				<i>Filing Date</i>	09/22/2003
				<i>First Named Inventor</i>	FRANK VAN BILSEN
				<i>Art Unit</i>	2881 2878
				<i>Examiner Name</i>	S. B. Allen
Sheet	1	of	1	Attorney Docket Number	081468-0305376

## **NON-PATENT LITERATURE DOCUMENTS**

Examiner Signature	<i>Stephanie Ball</i>	Date Considered	2/6/2006
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